SUBMISSION AGREEMENT
BETWEEN
THE NOAA COASTAL SERVICES CENTER
AND
THE NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION
FOR BENTHIC (GEOPHYSICAL AND GEOLOGICAL) DATA FROM CSC

2012-11-28

Introduction

This document represents the agreement that the NOAA Coastal Services Center (NOS>CSC) (the "Provider") and the National Centers for Environmental Information (NCEI) (the "Archive") have reached for submitting the Provider's data, Benthic (geophysical and geological) data from CSC, to the Archive for long-term preservation. It represents a joint effort between the Provider and the Archive to accurately document the agreement and the expectations between the two groups.

In order to ensure that the quality and integrity of the archived data is not compromised, the Provider and the Archive agree to maintain this agreement with accurate and up-to-date information through the life of the data submission.

NGDC will be contacted if future benthic data contains geophysical and geological data. Non-geophysical/geological data will be archived at NODC. Due to infrequent data submission events, this submission agreement will be appended with new information about identified objects for archival at NGDC.

Contacts

Persons included in all communications regarding the data submission.

Provider Contacts

Point of Contact, Technical Contact for data
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Archive Contacts

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Data Overview

A summary of the data covered by this agreement. Discuss the type of data/parameters, how the data were created, who created it, the inputs used, the project for which the data was created, the spatial coverage, resolution, and temporal extent.

--Sediment (benthic) grab and core sample data--
The National Oceanic and Atmospheric Administration (NOAA) Coastal Services Center's sediment core and grab sample data are collected using a variety of small coring and grab sampling devices (such as Ponar and Shipek). The data are intended to represent benthic habitats observable at the time of data collection. The sediment samples fall into two types: samples focused on physical properties of sediment, such as grain size analysis; and benthic samples focused on identifying biota within a sample. Samples focused on physical properties of sediment are geological in nature, and covered by this agreement. Samples focused on identification of biota are not included."

Area of Coverage: Varies by project. Normally ranges from minimum depths of -1 meter to -30 meters. Project extents are individual bay systems in Maine, Virginia, New York, New Jersey, and Florida.

Date(s) Available: Vary by location, ranging from 1995 to 2004

Format: ESRI point shapefile

Resolution: Planimetric resolution is based on the size of the grab and normally is approximately .03 meters. Vertical resolution is dependent on substrate type but normally is less than 0.25 meters.

Accuracy: 100 percent for observed points

For more information see: http://www.csc.noaa.gov/digitalcoast/data/benthicgrab/index.html

--Single beam acoustic data--
The NOAA Coastal Services Center's single-beam acoustic benthic habitat data were developed using the RoxAnn seabed classification instrument. Multiple echo returns were analyzed for bottom hardness and roughness. These parameters were used, along with calibration information, to classify the substrate and identify biological communities. Single-beam acoustic data are often used to examine transition zones between habitats or in areas too turbid and shallow for other technologies. A non-tidally corrected depth was also recorded.

Area of Coverage: Varies by project. Normally ranges from minimum depths of -1 meter to -30 meters. Project extents range from individual bay systems to smaller focus areas within larger projects in Delaware and Florida.

Date(s) Available: Vary by location, ranging from 1999 to 2001

Format: ESRI point shapefile

Resolution: Planimetric resolution is 10 percent of the depth

Minimal Mapping Unit: No minimum mapping unit for this type of data, but interpolated grids would have a specific cell size determined by transect spacing and habitat heterogeneity
Accuracy: 85 percent for all points

For more information see: http://www.csc.noaa.gov/digitalcoast/data/benthicsba/index.html

Applicable and Reference Documents

Documents applicable to or referenced from this agreement.

None

Submission Scope

Active Submission Period

2012-08-16 - 2014-09-01

Data Types

Below is a summary of the data sizing and submission schedule by data type group. Enter information on at least one data type.

Data Type Name	Data Sizing	Submission Schedule
Sediment sample data, single beam acoustic data	18 files, 7MB	one time delivery, possible future deliveries but unknown at this time

Reviews and Testing

Not applicable

Providing System

Identification of the system providing the data to NCEI.

System Name:	ftp site:
System Owner:	NOS>CSC
Physical Location:	Charleston, SC
Additional Information:	Data and metadata are grouped by collection location and zipped. ftp://ftp.csc.noaa.gov/pub/NODC/Single_Beam_Acoustic_Data/ ftp://ftp.csc.noaa.gov/pub/NODC/Grab_Sample_Data/

Transfer Interface

Archive will perform an ftp pull

Submission File Inventory

Information on each submitted file type from the Provider. Information on multiple file types can be added below.

File Type Name: Sediment sample data

File Name Pattern:

<State>_<location>_<dataType>.zip

File Name Field Definitions:

<State> is the two letter state abbreviation.

<location> is the location within the state where the data was collected.

<dataType> is the abbreviation of the collection instrument (sedgrabs is for sediment grab samples and sedcores for sediment core samples). Note that dataTypes rox for RoxAnn and benthos for grab samples assessing benthic infauna are not included in this agreement.

Example File Name:

DE_RehobethBay_sedgrabs.zip

File Format: ESRI shapefile and supporting files

File Compression: ZIP

File Size Range: 17KB to 40KB

File Count (Rate): 10

Data Volume (Rate): 16 MB

Submission Schedule: This will be at the discretion of the data manager.

Additional Information: Files are:

FL_ApalachicolaBay_sedgrabs.zip

ME_Wells_sedgrabs.zip

NY_JamaicaBay_sedgrabs.zip

NY_LowerBay_sedgrabs.zip

VA_YorkRiver_sedgrabs.zip

Descriptive Information Attributes:

Attribute	Source	Use
Select Metadata Elements	Metadata Record	For search, results display, and/or cross-referencing

File Type Name: Single beam acoustic data

File Name Pattern:

<State>_<location>_<dataType>.zip

File Name Field Definitions:

<State> is the two letter state abbreviation

<location> is the location within the state where the data was collected

<dataType> is the abbreviation of the collection instrument (rox is RoxAnn, segrabs is for sediment grab samples, and benthos is for grab samples assessing benthic infauna).

Example File Name:

FL_DryTortugas_rox.ZIP

File Format: ESRI shapefile and supporting files

File Compression: ZIP

File Size Range: 877KB to 3.1MB

File Count (Rate): 3

Data Volume (Rate): 61 MB

Submission Schedule: This will be at the discretion of the data manager.

Additional Information: Files are: DE_RehobethBay_rox.zip, FL_ApalachicolaBay_rox.zip, FL_DryTortugas_rox.ZIP

Descriptive Information Attributes:

Attribute	Source	Use
Select Metadata Elements	Metadata Record	For search, results display, and/or cross-referencing

Submission Manifest

A submission manifest file with a 32-character MD5 checksum value is required for each submitted file in order to ensure the integrity of the submitted data.

File Content Specification:

A submission manifest is not included as part of the initial delivery to NGDC. Subsequent submissions of data from CSC will include such a manifest, and the submission agreement will be updated with descriptions of this document.

File Transmission:

The frequency and mechanism of a submission manifest transmission will be described for subsequent submissions.

File Name Pattern:

Naming pattern used to identify the submission manifest file will be described for subsequent submissions.

File Name Definitions:

Definitions of the fields in the submission manifest file name pattern will be described for subsequent submissions.

Example File Name:

An actual submission manifest file name will be described for subsequent submissions.

Archive Ingest

Ingest processing steps at the Archive and communication with the Provider.

Receipt Verification:
The Archive will use the provided file name and 32-character MD5 checksum value to verify the integrity of a delivered file for subsequent submissions.

Error Reconciliation:
The Archive will report any problems or errors with file integrity, file name, checksum validation, or other errors that inhibit the data ingest and archive to the Provider. A new corresponding submission manifest will be required for files re-submitted by the Provider.

Receipt Confirmation:
The Archive will provide an inventory of the data ingested once it is completed or as requested by the Provider.

Quality Assurance:
Data quality and data processing is documented in the metadata for the data.

Archive File Packaging:
Files will be archived as received, except a gzip algorithm will be applied prior to ingest into the archive system.

Archive Storage

Archive attributes of each archived file type.

Archive File Type Name: As ingested from the provider with exception of gzip (.gz) extension.

Archive File Attributes/IDs:

Attribute/ID Type	Value
File Name	As submitted by Provider.

Archive Updates

Data submissions intended to update an existing archive record require adequate notification and justification. Updates can supersede previous data submissions as a newer or corrected version. The Archive will coordinate with the Provider if previously submitted data shall be versioned or removed from the archive. Such actions will be tracked by the Archive.

Retention Schedule

The data will be retained in the Archive for long-term preservation in accordance with NOAA data management standards. Information on data usage and archive value may be used for making decisions on continuing the duration of the archive.

(Notional) Disposition: Unknown/TBD

Constraints

No constraints apply or will apply to the archived data.

User Community

Coastal managers and researchers are the user community. The entire suite of benthic data (including the component archived at NODC) will likely be used for environmental characterization.

User Documentation and Metadata

All data is accompanied by fully compliant FGDC CSDGM metadata that was written by the vendor and updated by CSC with additional information (such as processing and reprojection by CSC). Information on data processing, data quality, geospatial representation, and data discovery are included. NGDC and CSC will coordinate transformation of FGDC Metadata to the ISO standards for assimilation into the Archive's metadata systems.

Representation Information Items

The CSDGM metadata includes information on the structure and meaning of the data.

Item	Description
Metadata as submitted by Provider. Ex.: va_yr02_benthos-meta.xml	FGDC Metadata Record.

Preservation Descriptive Information Items

The metadata contains information on the quality and processing of the data.

Item	Description
Metadata as submitted by Provider. Ex.: va_yr02_benthos-meta.xml	FGDC Metadata Record.

Access and Dissemination

For Singlebeam Acoustics Data.

Marine Geophysical Trackline Data
http://ngdc.noaa.gov/mgg/geodas/trackline.html

Marine Geophysical Trackline Data - Interactive Map Interface (i.e ArcGIS Map)
"Marine Geophysical Data"
http://maps.ngdc.noaa.gov/viewers/geophysics/

Marine Geophysical Trackline Data - Alternative Text Interface (i.e. old GEODAS until GEODAS is replaced)
http://www.ngdc.noaa.gov/mgg/gdas/ims/trk_cri.html

For Grab Sample Data:

Index to Marine and Lucustrine Samples
http://www.ngdc.noaa.gov/geosamples/index.jsp
http://maps.ngdc.noaa.gov/viewers/sample_index/

Additional Terms

None.